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### 1 [Scalable security for petascale parallel file systems](#)



Andrew W. Leung, Ethan L. Miller, Stephanie Jones

November 2007 SC '07: Proceedings of the 2007 ACM/IEEE conference on Supercomputing

**Publisher:** ACM

Full text available: [pdf\(350.03 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 22, Citation Count: 0

Petascale, high-performance file systems often hold sensitive data and thus require security, but authentication and authorization can dramatically reduce performance. Existing security solutions perform poorly in these environments because they cannot ...

**Keyw ords:** capabilities, high-performance computing, scalability, secure object-based storage

## 2 [The management of users, roles, and permissions in JDOSecure](#)



Matthias Merz

August 2006 PPPJ '06: Proceedings of the 4th international symposium on Principles and practice of programming in Java

**Publisher:** ACM

Full text available: [pdf\(495.70 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 65, Citation Count: 0

The Java Data Objects (JDO) specification proposes a transparent and database-independent persistence abstraction layer for Java. Since JDO is designed as a lightweight persistence approach, it does not provide any authentication or authorization capabilities ...

## 3 [An end-middle-end approach to connection establishment](#)



Saikat Guha, Paul Francis

October 2007 ACM SIGCOMM Computer Communication Review, Volume 37 Issue 4

**Publisher:** ACM

Full text available: [pdf\(883.87 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 24, Downloads (12 Months): 324, Citation Count: 0

The current model for flow establishment in the Internet: DNS Names, IP addresses, and transport ports, is inadequate. Not all of the problem is due to the small IPv4 address space and resulting NAT boxes. Even where global addresses exist, firewalls ...

Keyw ords: NUTSS, end-middle-end, off-path, on-path, signaling

## 4 [Content-triggered trust negotiation](#)



Adam Hess, Jason Holt, Jared Jacobson, Kent E. Seamons

August 2004 ACM Transactions on Information and System Security (TISSEC), Volume 7 Issue 3

**Publisher:** ACM

Full text available: [pdf\(815.36 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 156, Citation Count: 1

The focus of access control in client/server environments is on protecting sensitive server resources by determining whether or not a client is authorized to access those resources. The set of resources is usually static, and an access control policy ...


Keyw ords: Trust negotiation, access control, authentication, credentials

5 Report of the national workshop on internet voting: issues and research agenda

C. D. Mote, Jr.

May dg.o '00: Proceedings of the 2000 annual national conference on Digital  
2000 government research

**Publisher:** Digital Government Research Center

Full text available:  [pdf\(539.99 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 140, Citation Count: 0


As use of the Internet in commerce, education and personal communication has become common, the question of Internet voting in local and national elections naturally arises. In addition to adding convenience and precision, some believe that Internet ...

6 Report of the national workshop on internet voting: issues and research agenda

C. D. Mote, Jr.

May dg.o '02: Proceedings of the 2002 annual national conference on Digital  
2002 government research

**Publisher:** Digital Government Research Center

Full text available:  [pdf\(539.99 KB\)](#)

Additional Information: [full citation](#)


**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 166, Citation Count: 0

7 A composable framework for secure multi-modal access to internet services from Post-PC devices

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer

October Mobile Networks and Applications, Volume 7 Issue 5  
2002

**Publisher:** Kluwer Academic Publishers

Full text available:  [pdf\(340.33 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 83, Citation Count: 1

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services ...

Keywords: internet, middleware, post-PC, security, transcoding

## 8 [An end-to-end approach to globally scalable programmable networking](#)



Micah Beck, Terry Moore, James S. Plank

October 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 4

**Publisher:** ACM

Full text available: [pdf\(447.96 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 65, Citation Count: 1

The three fundamental resources underlying Information Technology are bandwidth, storage, and computation. The goal of wide area infrastructure is to provision these resources to enable applications within a community. The end-to-end principles provide ...

Keywords: Internet Backplane Protocol, Logistical Network Computing, active networking, asynchronous communications, distributed state management, end-to-end design, network storage, programmable networking, scalability, store and forward network

## 9 [CPOL: high-performance policy evaluation](#)



Kevin Borders, Xin Zhao, Atul Prakash

November 2005 CCS '05: Proceedings of the 12th ACM conference on Computer and communications security

**Publisher:** ACM

Full text available: [pdf\(299.13 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 54, Citation Count: 3

Policy enforcement is an integral part of many applications. Policies are often used to control access to sensitive information. Current policy specification languages give users fine-grained control over when and how information can be accessed, and ...

Keywords: performance, policy evaluation, privacy policy

## 10 [An end-to-end approach to globally scalable programmable networking](#)



Micah Beck, Terry Moore, James S. Plank

August 2003 FDNA '03: Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture

**Publisher:** ACM

Full text available: [pdf\(447.96 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

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Keywords: Internet Backplane Protocol, Logistical Network Computing, active networking, asynchronous communications, distributed state management, end-to-end design, network storage, programmable networking, scalability, store and forward network

## 11 Protecting bus-based hardware IP by secret sharing



Jarrold A. Roy, Farinaz Koushanfar, Igor L. Markov

June DAC '08: Proceedings of the 45th annual conference on Design automation 2008

**Publisher:** ACM

Full text available:  [pdf\(604.97 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 0, Citation Count: 0

Our work addresses protection of hardware IP at the mask level with the goal of preventing unauthorized manufacturing. The proposed protocol based on chip locking and activation is applicable to a broad category of electronic systems with a primary bus. ...

Keywords: computer crime, cryptography, integrated circuits, manufacturing

## 12 XML signature element wrapping attacks and countermeasures



Michael McIntosh, Paula Austel

November 2005 SWS '05: Proceedings of the 2005 workshop on Secure web services

**Publisher:** ACM

Full text available:  [pdf\(74.05 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 139, Citation Count: 1


Naive use of XML Signature may result in signed documents remaining vulnerable to undetected modification by an adversary. In the typical usage of XML Signature to protect SOAP messages, an adversary may be capable of modifying valid messages in ...

Keywords: XML signature, attack, countermeasure, security policy, vulnerability, web services security

### 13 A SIP-based conference control framework

 Petri Koskelainen, Henning Schulzrinne, Xiaotao Wu  
May NOSSDAV '02: Proceedings of the 12th international workshop on Network  
2002 and operating systems support for digital audio and video

**Publisher:** ACM


Full text available:  [pdf\(165.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 138, Citation Count: 3


Conference control has been an area of intensive research over the years but widely accepted robust and scalable solutions and standards are still lacking. The main conference control components are conference management and floor (resource) control. ...

Keywords: SIP, SOAP, conference control, floor control, multimedia conferencing, packet audio, packet video

### 14 SHARP: an architecture for secure resource peering

 Yun Fu, Jeffrey Chase, Brent Chun, Stephen Schwab, Amin Vahdat  
October SOSP '03: Proceedings of the nineteenth ACM symposium on Operating  
2003 systems principles

**Publisher:** ACM

Full text available:  [pdf\(339.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 93, Citation Count: 21


This paper presents Sharp, a framework for secure distributed resource management in an Internet-scale computing infrastructure. The cornerstone of Sharp is a construct to represent cryptographically protected resource <it> claims</it> --- promises ...

Keywords: peer-to-peer, resource allocation, resource peering

### 15 Modeling and Evolving Crosscutting Concerns in ADORA

Silvio Meier, Tobias Reinhard, Reinhard Stoiber, Martin Glinz  
May EARLYASPECTS '07: Proceedings of the Early Aspects at ICSE: Workshops in  
2007 Aspect-Oriented Requirements Engineering and Architecture Design

**Publisher:** IEEE Computer Society

Full text available:  [pdf\(2.47 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 81, Citation Count: 0

For an effective handling of crosscutting concerns during the software process, adequate support is required not only in design and coding, but also in requirements engineering. For this purpose, we have developed an aspektoriented extension of the requirements ...


## 16 Role-based access management for ad-hoc collaborative sharing



Jing Jin, Gail-Joon Ahn

June 2006 SACMAT '06: Proceedings of the eleventh ACM symposium on Access control models and technologies

**Publisher:** ACM

Full text available:  [pdf\(839.88 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 169, Citation Count: 0

Under scientific collaborations, resource sharing tends to be highly dynamic and often ad hoc. The dynamic characteristics and sharing patterns of ad-hoc collaborative sharing impose a need for comprehensive and flexible approaches to reflect and cope ...

**Keyw ords:** XACML-based policy framework, access control, ad-hoc collaboration, information sharing

## 17 An authorization model for a public key management service



Pierangela Samarati, Michael K. Reiter, Sushil Jajodia

November 2001 ACM Transactions on Information and System Security (TISSEC), Volume 4 Issue 4

**Publisher:** ACM

Full text available:  [pdf\(337.73 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)


**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 96, Citation Count: 2

Public key management has received considerable attention from both the research and commercial communities as a useful primitive for secure electronic commerce and secure communication. While the mechanics of certifying and revoking public keys and ...

**Keyw ords:** Access control, authorizations specification and enforcement, public key infrastructure

## 18 SHARP: an architecture for secure resource peering

 Yun Fu, Jeffrey Chase, Brent Chun, Stephen Schwab, Amin Vahdat  
December 2003 ACM SIGOPS Operating Systems Review, Volume 37 Issue 5  
**Publisher:** ACM


Full text available:  [pdf\(339.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 93, Citation Count: 21

This paper presents Sharp, a framework for secure distributed resource management in an Internet-scale computing infrastructure. The cornerstone of Sharp is a construct to represent cryptographically protected resource <it> claims</it> --- promises ...

Keyw ords: peer-to-peer, resource allocation, resource peering

## 19 Mesh: secure, lightweight grid middleware using existing SSH infrastructure

 Paul Z. Kolano  
June 2007 SACMAT '07: Proceedings of the 12th ACM symposium on Access control models and technologies  
**Publisher:** ACM


Full text available:  [pdf\(178.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 135, Citation Count: 0

Grid computing promises gains in effective computational power, resource utilization, and resource accessibility, but in order to achieve these gains, organizations must deploy grid middleware that, in most cases, does not adhere to fundamental security ...

Keyw ords: SSH, access control, authentication, authorization, delegation, distributed systems, grids, middleware, security, single sign-on

## 20 An end-middle-end approach to connection establishment

 Saikat Guha, Paul Francis  
August 2007 SIGCOMM '07: Proceedings of the 2007 conference on Applications, technologies, architectures, and protocols for computer communications  
**Publisher:** ACM

Full text available:  [pdf\(883.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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The current model for flow establishment in the Internet: DNS Names, IP addresses, and transport ports, is inadequate. Not all of the problem is due to the small IPv4 address space and resulting NAT boxes. Even where global addresses exist, firewalls ...

Keywords: NUTSS, end-middle-end, off-path, on-path, signaling

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